

North American Hereford National Cattle Evaluation

Genetic Trend

Spring 2012

Includes:

Genetic Trend: EPD & \$Index Means by Birth Year Group
Averages and Percentile Breakdown - Active Sires
Averages and Percentile Breakdown - Active Dams
Averages and Percentile Breakdown - 2010 & 2011 Calves

Spring 2012
North American Hereford National Cattle Evaluation

Genetic Trend: EPD & \$ Index Means --- All Animals --- By Birth Year Group

Birth Year	DIRECT CALV. EASE		BIRTH WEIGHT		WEANING WEIGHT		YEARLING WEIGHT		MATERNAL MILK		MATERNAL M & G		MATERNAL CALV. EASE		MATURE COW WEIGHT		SCROTAL CIRCUM.		CARCASS FAT		CARCASS RIBEYE AREA		CARCASS MARBLING		BMI\$ INDEX		CEZ\$ INDEX		BI\$ INDEX		CHB\$ INDEX			
	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count	Mean	Count
71	0.6	19,103	-1.9	40,475	-5.3	41,182	-5.7	41,060	4.0	41,666	1.3	41,119	0.5	19,103	11	40,156	-0.1	24,638																
72	0.6	22,232	-1.8	46,598	-4.4	47,290	-4.4	47,192	3.9	47,738	1.7	47,201	0.5	22,232	13	46,301	0.0	30,127																
73	0.7	25,718	-1.8	53,668	-4.9	54,156	-4.9	54,102	4.1	54,526	1.6	54,079	0.5	25,718	13	53,397	-0.1	39,553																
74	0.7	28,090	-1.7	56,104	-4.0	56,515	-3.5	56,447	4.2	56,774	2.2	56,439	0.4	28,090	14	55,812	0.0	43,683																
75	0.7	30,311	-1.5	56,405	-2.7	56,721	-1.6	56,661	4.3	56,979	3.0	56,646	0.4	30,311	15	56,070	0.0	46,296																
76	0.7	40,197	-1.6	173,245	-3.6	173,522	-2.9	173,481	4.0	173,774	2.2	173,373	0.3	40,197	15	172,914	0.0	157,349																
77	0.8	46,347	-1.4	175,058	-2.4	175,360	-1.1	175,329	4.1	175,523	2.9	175,236	0.2	46,347	17	174,810	0.0	162,893																
78	0.8	56,726	-1.2	168,483	-0.9	168,647	1.3	168,614	4.3	168,803	3.8	168,549	0.2	56,726	19	168,164	0.0	159,985																
79	0.8	68,419	-0.9	177,496	1.1	177,618	4.5	177,596	4.3	177,770	4.9	177,500	0.2	68,419	22	177,166	0.0	170,428																
80	0.8	86,702	-0.6	187,153	2.9	187,300	7.3	187,279	4.5	187,434	6.0	187,164	0.3	86,702	24	186,828	0.0	181,862																
81	0.8	104,662	-0.4	193,826	4.8	193,785	10.5	193,762	4.7	193,878	7.1	193,609	0.2	104,662	27	193,501	0.1	189,115																
82	0.7	109,579	-0.1	175,566	7.1	175,598	14.2	175,589	5.0	175,686	8.6	175,435	0.2	109,579	31	175,336	0.1	171,946																
83	0.7	107,363	0.2	163,132	9.2	163,205	17.4	163,192	5.2	163,312	9.8	163,040	0.2	107,363	34	162,928	0.1	160,262																
84	0.7	101,500	0.5	149,534	11.3	149,584	20.8	149,573	5.4	149,700	11.1	149,411	0.2	101,500	38	149,370	0.1	147,206																
85	0.6	96,696	0.8	138,504	13.3	138,592	24.0	138,596	5.6	138,738	12.2	138,441	0.0	96,696	41	138,382	0.1	136,330																
86	0.5	95,108	1.1	134,430	15.1	134,496	26.8	134,485	5.7	134,613	13.3	134,360	0.0	95,108	44	134,289	0.2	132,601																
87	0.4	99,938	1.4	138,373	16.9	138,537	29.8	138,534	5.7	138,666	14.2	138,369	0.0	99,938	47	138,290	0.2	136,579																
88	0.2	107,310	1.8	142,250	18.8	142,336	32.8	142,333	5.7	142,435	15.2	142,212	0.0	107,310	51	142,185	0.2	140,389																
89	0.1	111,075	2.1	142,865	20.6	143,035	35.7	143,039	5.9	143,232	16.2	142,866	0.0	111,075	55	142,865	0.2	141,257																
90	-0.1	118,567	2.4	148,194	22.6	148,379	38.9	148,377	6.2	148,528	17.5	148,200	0.0	118,567	59	148,164	0.3	146,252	-0.003	146,775	-0.08	146,775	-0.02	146,775	12.87	116,725	14.55	116,725	15.02	116,725	7.28	117,277		
91	-0.2	123,873	2.6	155,272	24.3	155,483	41.6	155,479	6.4	155,654	18.6	155,318	0.0	123,873	61	155,352	0.3	153,602	-0.004	153,993	-0.06	153,993	-0.02	153,993	13.00	122,204	14.37	122,204	14.97	122,204	8.05	122,711		
92	-0.4	131,232	2.9	160,013	25.6	160,188	43.7	160,187	6.8	160,310	19.7	160,047	-0.1	131,232	64	160,068	0.3	158,348	-0.004	158,950	-0.05	158,950	-0.02	158,950	13.09	129,682	14.19	129,682	14.93	129,682	8.70	130,274		
93	-0.4	133,766	3.0	159,886	26.9	160,055	45.7	160,065	7.4	160,221	20.9	159,863	-0.1	133,766	65	159,935	0.3	157,789	-0.004	158,340	-0.04	158,340	-0.02	158,340	13.17	131,682	14.09	131,682	14.84	131,682	9.36	132,301		
94	-0.5	136,463	3.2	159,897	28.2	160,047	47.5	160,049	7.9	160,193	22.0	159,654	-0.2	136,463	67	159,945	0.3	157,907	-0.003	158,343	-0.02	158,343	-0.02	158,343	13.23	134,580	13.97	134,580	14.75	134,580	9.95	135,039		
95	-0.4	131,731	3.3	150,589	29.3	150,852	49.2	150,852	8.5	151,120	23.2	150,276	-0.2	131,731	69	150,744	0.4	148,703	-0.003	149,253	-0.01	149,253	-0.02	149,253	13.36	130,019	13.93	130,019	14.72	130,019	10.60	130,540		
96	-0.4	125,429	3.4	143,043	30.6	143,152	51.2	143,153	9.2	143,409	24.5	142,156	-0.1	125,429	70	143,075	0.4	140,200	-0.003	140,983	0.00	140,983	-0.02	140,983	13.47	123,132	13.94	123,132	14.61	123,132	11.28	123,586		
97	-0.4	126,487	3.5	143,252	31.4	143,321	52.5	143,320	9.7	143,609	25.5	142,673	-0.1	126,487	71	143,259	0.4	140,770	-0.003	141,507	0.02	141,507	-0.02	141,507	13.67	124,384	13.95	124,384	14.68	124,384	11.82	124,924		
98	-0.3	126,173	3.5	141,249	32.4	141,288	54.1	141,290	10.0	141,581	26.3	140,369	-0.1	126,173	72	141,219	0.4	137,511	-0.003	138,758	0.03	138,758	-0.01	138,758	13.88	123,038	14.01	123,038	14.72	123,038	12.39	123,834		
99	-0.3	123,840	3.6	136,198	33.2	136,258	55.3	136,257	10.5	136,690	27.2	135,692	0.0	123,840	73	136,190	0.5	134,181	-0.003	134,694	0.04	134,694	-0.01	134,694	14.06	121,907	14.04	121,907	14.78	121,907	12.86	122,502		
00	-0.3	121,774	3.7	133,169	34.2	133,215	56.9	133,215	11.1	134,018	28.4	132,723	0.0	121,774	75	133,118	0.5	131,532	-0.002	131,778	0.06	131,778	-0.01	131,778	14.16	120,098	13.96	120,098	14.74	120,098	13.40	120,543		
01	-0.2	124,152	3.7	136,320	35.0	136,392	58.2	136,392	11.5	136,959	29.1	135,493	0.1	124,152	76	136,291	0.5	133,989	-0.002	135,042	0.07	135,042	-0.01	135,042	14.32	122,660	14.02	122,660	14.72	122,660	14.01	123,098		
02	-0.2	118,403	3.7	130,214	36.0	130,235	59.6	130,232	12.1	130,774	30.3	129,249	0.1	118,403	77	130,125	0.5	128,142	-0.002	129,123	0.09	129,123	0.00	129,123	14.47	117,174	14.02	117,174	14.70	117,174	14.61	117,577		
03	-0.1	118,220	3.7	129,515	37.0	129,520	61.2	129,515	12.6	130,060	31.2	128,679	0.2	118,220	78	129,453	0.5	127,323	-0.002	128,281	0.10	128,281	0.00	128,281	14.73	116,975	14.11	116,975	14.76	116,975	15.28	117,303		
04	-0.1	116,921	3.7	128,872	38.0	128,881	62.7	128,878	13.0	129,437	32.2	127,467	0.3	116,921	79	128,799	0.6	126,177	-0.002	127,828	0.13	127,828	0.00	127,828	15.01	115,839	14.18	115,839	14.87	115,839	15.92	116,115		
05	-0.1	116,185	3.7	127,077	39.2	127,097	64.5	127,095	13.7	127,676	33.4	126,440	0.4	116,185	80	127,002	0.6	125,293	-0.001	126,175	0.15	126,175	0.00	126,175	15.18	115,137	14.15	115,137	14.85	115,137	16.63	115,474		
06	0.0	113,194	3.7	124,358	40.2	124,352	66.1	124,358	14.5	124,675	34.7	124,020	0.5	113,194	81	124,315	0.6	123,007	-0.001	123,578	0.17	123,578	0.01	123,578	15.38	112,464	14.22	112,464	14.86	112,464	17.30	112,610		
07	0.1	109,949	3.7	119,769	41.4	119,767	67.9	119,768	15.2	119,826	36.0	119,612	0.6	109,949	83	119,724	0.6	118,887	0.000	119,236	0.19	119,236	0.02	119,236	15.71	109,528	14.33	109,528	14.97	109,528	18.05	109,594		
08	0.2	105,620	3.7	116,232	42.2	116,229	69.4	116,231	15.8	116,236	37.0	115,941	0.7	105,620	83	116,184	0.7	115,482	0.000	115,872	0.21	115,872	0.03	115,872	15.98	105,313	14.41	105,313	15.08	105,313	18.69	105,367		
09	0.3	100,647	3.6	110,363	43.3	110,361	71.0	110,361	16.5	110,361	38.3	109,734	0.8	100,647	84	110,349	0.7	109,544	0.001	110,184	0.22	110,184	0.03	110,184	16.27	100,505	14.53	100,505	15.16	100,505	19.42	100,5		

Percentile Breakdowns of EPDs

A percentile chart can be used to get a better idea of how an animal ranks in the current group of equivalent animals in the Hereford population in North America. The charts are divided into five-percent increments for each trait. The top five-percent are further divided into one-percent increments.

Hereford cattle can be grouped into three very broad categories. The first would be active sires in the North American Hereford population. These are bulls who have sired at least ten total calves in the last three years. Your herdsire or potential herdsire can be compared to this population of bulls. Very few bulls rank at the top in every trait because of inherent genetic correlations. With careful evaluation you should be able to find bulls to match your specifications. Note, no animal will fall exactly on all even percentile increments. Simply utilize the even percentile level in which the EPD has exceeded.

Since EPDs may be used to compare animals in addition to active sires, additional information is provided. The average EPDs, ranges and a percentile breakdown for yearling and two-year-old cattle born in 2010 and 2011 are also provided. This table is useful for comparing the EPDs of animals that are typically for sale or a potential herd replacement candidate.

The breakdown chart and EPD ranges for the active cows with a calf reported since Jan. 1, 2010 allow one to compare his herd with all active cows in the Hereford population in North America.

**American Hereford Association
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Averages and Percentile Breakdown - Active Sires																
	Direct	Birth	Weaning	Yearling	Milk	M&G	Maternal	Mature	Scrotal	Carcass			\$ Indexes			
	Calv. Ease	Weight	Weight	Weight			Calv.Ease	Cow Wt.	Circum.	FAT	REA	MARB	BMI\$	CEZ\$	BI\$	CHB\$
Averages																
Average	0.4	3.6	46	76	18	41	1.0	87	0.8	0.003	0.28	0.05	17.00	15.00	15.00	21.00
Low	-25.4	-6.9	-96	-110	-20	-43	-11.4	172	-1.0	-0.110	-1.67	-0.49	-3.00	-11.00	-3.00	-48.00
High	13.6	13.6	92	134	48	77	9.6	-45	2.7	0.156	1.37	1.02	45.00	30.00	44.00	47.00
Percentile Breakdown																
Upper 1%	7.2	-1.9	69	115	35	62	6.1	35	1.8	-0.058	0.89	0.44	31.00	23.00	29.00	36.00
2%	6.3	-0.9	66	109	33	60	5.5	42	1.7	-0.049	0.80	0.38	28.00	22.00	26.00	34.00
3%	5.9	-0.4	65	107	32	59	5.1	46	1.6	-0.044	0.75	0.34	27.00	21.00	25.00	33.00
4%	5.5	-0.1	63	104	31	57	4.9	50	1.5	-0.040	0.72	0.31	26.00	21.00	24.00	32.00
5%	5.2	0.1	62	103	30	56	4.6	52	1.4	-0.037	0.68	0.29	25.00	20.00	23.00	31.00
10%	4.1	1.0	59	97	27	53	3.9	61	1.2	-0.027	0.59	0.22	23.00	19.00	21.00	29.00
15%	3.4	1.5	57	93	26	51	3.3	66	1.1	-0.021	0.53	0.17	21.00	18.00	19.00	27.00
20%	2.8	2.0	55	89	24	50	2.9	70	1.0	-0.017	0.48	0.14	20.00	17.00	18.00	26.00
25%	2.3	2.3	53	87	23	48	2.5	74	1.0	-0.014	0.44	0.11	19.00	17.00	18.00	25.00
30%	1.9	2.6	52	84	22	47	2.1	77	0.9	-0.011	0.40	0.09	19.00	16.00	17.00	24.00
35%	1.6	2.9	50	82	21	45	1.8	80	0.9	-0.008	0.36	0.07	18.00	16.00	16.00	23.00
40%	1.2	3.2	49	80	20	44	1.5	83	0.8	-0.005	0.33	0.06	18.00	16.00	16.00	23.00
45%	0.9	3.4	48	78	19	43	1.2	85	0.8	-0.002	0.30	0.04	17.00	15.00	15.00	22.00
50%	0.5	3.7	46	76	18	42	0.9	88	0.7	0.000	0.27	0.03	17.00	15.00	15.00	21.00
55%	0.2	3.9	45	74	18	41	0.6	90	0.7	0.003	0.24	0.02	16.00	14.00	15.00	20.00
60%	-0.2	4.1	44	72	17	39	0.4	93	0.7	0.006	0.21	0.00	16.00	14.00	14.00	20.00
65%	-0.5	4.4	43	70	16	38	0.1	95	0.6	0.009	0.18	-0.01	15.00	14.00	14.00	19.00
70%	-0.9	4.7	41	68	15	37	-0.1	98	0.6	0.013	0.14	-0.03	15.00	13.00	13.00	18.00
75%	-1.4	5.0	40	65	14	35	-0.4	101	0.5	0.016	0.11	-0.04	14.00	13.00	13.00	17.00
80%	-1.9	5.3	38	62	12	33	-0.8	105	0.5	0.021	0.07	-0.06	13.00	12.00	12.00	16.00
85%	-2.6	5.7	36	58	11	31	-1.2	109	0.4	0.028	0.03	-0.07	13.00	11.00	11.00	15.00
90%	-3.4	6.2	33	54	9	29	-1.7	114	0.3	0.035	-0.03	-0.10	12.00	10.00	11.00	13.00
95%	-4.7	7.0	29	47	6	25	-2.6	122	0.2	0.049	-0.11	-0.14	10.00	9.00	9.00	11.00
100%	-25.4	13.6	-96	-110	-20	-43	-11.4	172	-1.0	0.156	-1.67	-0.49	-3.00	-11.00	-3.00	-48.00

6,573 sires produced at least 10 calves since January 1, 2009.

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Averages and Percentile Breakdown - Active Dams																
	Direct	Birth	Weaning	Yearling	Milk	M&G	Maternal	Mature	Scrotal	Carcass			\$ Indexes			
	Calv. Ease	Weight	Weight	Weight			Calv.Ease	Cow Wt.	Circum.	FAT	REA	MARB	BMI\$	CEZ\$	BI\$	CHB\$
Averages																
Average	0.1	3.7	41	68	16	36	0.6	82	0.7	0.001	0.19	0.02	16.00	14.00	15.00	18.00
Low	-15.9	-6.9	-19	-29	-15	-10	-9.5	198	-0.8	-0.127	-0.74	-0.54	1.00	-2.00	0.00	-13.00
High	10.5	13.8	76	130	46	76	8.9	-22	2.5	0.174	1.19	0.84	40.00	27.00	38.00	46.00
Percentile Breakdown																
Upper 1%	5.6	-0.8	61	102	32	58	5.3	36	1.5	-0.046	0.69	0.34	26.00	21.00	25.00	30.00
2%	5.0	-0.2	59	98	30	55	4.7	43	1.3	-0.039	0.63	0.28	24.00	20.00	23.00	29.00
3%	4.5	0.2	57	95	29	54	4.3	46	1.3	-0.035	0.59	0.25	23.00	20.00	22.00	28.00
4%	4.2	0.5	56	93	28	53	4.0	49	1.2	-0.032	0.55	0.23	23.00	19.00	21.00	27.00
5%	3.9	0.7	55	92	27	52	3.7	51	1.2	-0.029	0.53	0.21	22.00	19.00	21.00	27.00
10%	3.0	1.4	53	87	25	49	3.0	59	1.0	-0.022	0.45	0.15	20.00	18.00	19.00	25.00
15%	2.5	1.9	50	83	23	47	2.5	63	0.9	-0.018	0.39	0.12	19.00	17.00	18.00	23.00
20%	2.0	2.2	49	80	22	45	2.1	67	0.9	-0.014	0.35	0.09	18.00	17.00	17.00	22.00
25%	1.6	2.5	47	78	21	43	1.7	70	0.8	-0.012	0.31	0.07	18.00	16.00	17.00	21.00
30%	1.3	2.8	46	76	20	42	1.5	73	0.8	-0.009	0.28	0.06	17.00	16.00	16.00	21.00
35%	1.0	3.1	45	74	19	40	1.2	75	0.7	-0.007	0.25	0.04	17.00	15.00	16.00	20.00
40%	0.7	3.3	44	72	18	39	1.0	78	0.7	-0.005	0.22	0.03	16.00	15.00	16.00	19.00
45%	0.4	3.5	43	70	17	38	0.7	80	0.7	-0.003	0.20	0.02	16.00	15.00	15.00	19.00
50%	0.1	3.7	42	68	16	37	0.5	82	0.6	-0.001	0.17	0.01	15.00	14.00	15.00	18.00
55%	-0.1	3.9	40	66	15	35	0.3	84	0.6	0.001	0.15	0.00	15.00	14.00	14.00	17.00
60%	-0.4	4.2	39	64	14	34	0.1	87	0.6	0.004	0.12	-0.01	15.00	14.00	14.00	17.00
65%	-0.7	4.4	38	62	13	33	-0.1	89	0.5	0.006	0.10	-0.02	14.00	13.00	14.00	16.00
70%	-1.0	4.6	37	60	12	31	-0.3	92	0.5	0.009	0.07	-0.03	14.00	13.00	13.00	15.00
75%	-1.4	4.9	36	58	11	30	-0.6	94	0.5	0.012	0.05	-0.05	13.00	13.00	13.00	15.00
80%	-1.8	5.2	34	56	10	28	-0.9	97	0.4	0.015	0.02	-0.06	13.00	12.00	12.00	14.00
85%	-2.2	5.5	33	53	8	26	-1.3	101	0.4	0.020	-0.01	-0.08	12.00	12.00	12.00	13.00
90%	-2.9	5.9	30	49	6	24	-1.8	106	0.3	0.026	-0.05	-0.10	11.00	11.00	11.00	12.00
95%	-3.9	6.7	27	44	3	20	-2.6	113	0.2	0.036	-0.12	-0.13	10.00	10.00	10.00	10.00
100%	-15.9	13.8	-19	-29	-15	-10	-9.5	198	-0.8	0.174	-0.74	-0.54	1.00	-2.00	-1.00	-13.00

117,440 cows calving since January 1, 2010.

**American Hereford Association
Spring 2012
North American Hereford National Cattle Evaluation**

Averages and Percentile Breakdown - 2010 & 2011 Calves																
	Direct	Birth	Weaning	Yearling	Milk	M&G	Maternal	Mature	Scrotal	Carcass			\$ Indexes			
	Calv. Ease	Weight	Weight	Weight			Calv.Ease	Cow Wt.	Circum.	FAT	REA	MARB	BMI\$	CEZ\$	BI\$	CHB\$
Averages																
Average	0.5	3.6	45	73	18	40	1.0	85	0.7	0.002	0.25	0.04	17.00	15.00	15.00	20.00
Low	-13.2	-7.9	-30	-29	-11	-5	-9.1	164	-0.8	-0.112	-0.87	-0.46	1.00	0.00	-3.00	-16.00
High	10.4	13.0	82	132	42	74	8.9	-13	2.6	0.158	1.20	0.86	38.00	27.00	36.00	46.00
Percentile Breakdown																
Upper 1%	5.9	-1.1	64	104	31	58	4.8	45	1.5	-0.042	0.69	0.34	27.00	21.00	25.00	32.00
2%	5.2	-0.4	61	100	30	56	4.4	50	1.4	-0.036	0.64	0.30	25.00	21.00	23.00	31.00
3%	4.8	0.0	60	98	29	55	4.1	53	1.3	-0.032	0.60	0.27	24.00	20.00	22.00	30.00
4%	4.5	0.3	59	96	28	54	3.8	56	1.3	-0.029	0.58	0.25	24.00	20.00	22.00	29.00
5%	4.2	0.5	58	95	27	53	3.7	58	1.2	-0.027	0.56	0.23	23.00	19.00	21.00	29.00
10%	3.4	1.3	55	90	25	51	3.0	65	1.1	-0.020	0.49	0.18	21.00	18.00	19.00	27.00
15%	2.8	1.8	53	87	24	49	2.6	69	1.0	-0.016	0.44	0.14	20.00	18.00	18.00	26.00
20%	2.4	2.2	52	85	23	47	2.3	72	1.0	-0.013	0.40	0.12	19.00	17.00	18.00	25.00
25%	2.0	2.5	51	83	22	46	2.0	75	0.9	-0.010	0.37	0.10	19.00	17.00	17.00	24.00
30%	1.7	2.7	49	81	21	45	1.8	77	0.9	-0.008	0.34	0.08	18.00	16.00	17.00	23.00
35%	1.4	3.0	48	79	20	44	1.6	80	0.8	-0.006	0.32	0.07	18.00	16.00	16.00	22.00
40%	1.1	3.2	47	77	19	43	1.3	82	0.8	-0.004	0.29	0.05	17.00	15.00	16.00	22.00
45%	0.8	3.4	46	75	19	42	1.1	84	0.8	-0.002	0.27	0.04	17.00	15.00	15.00	21.00
50%	0.5	3.6	45	74	18	41	0.9	86	0.7	0.001	0.25	0.03	16.00	15.00	15.00	20.00
55%	0.2	3.8	44	72	17	40	0.7	88	0.7	0.003	0.22	0.02	16.00	14.00	15.00	20.00
60%	0.0	4.0	43	70	17	39	0.5	90	0.7	0.005	0.20	0.01	16.00	14.00	14.00	19.00
65%	-0.3	4.3	42	69	16	37	0.3	92	0.6	0.007	0.18	0.00	15.00	14.00	14.00	19.00
70%	-0.6	4.5	41	67	15	36	0.1	94	0.6	0.010	0.15	-0.01	15.00	13.00	14.00	18.00
75%	-1.0	4.7	40	65	14	35	-0.1	96	0.6	0.013	0.13	-0.02	14.00	13.00	13.00	17.00
80%	-1.4	5.0	38	62	13	33	-0.4	99	0.5	0.016	0.10	-0.04	14.00	13.00	13.00	16.00
85%	-1.9	5.4	37	60	12	31	-0.7	102	0.5	0.021	0.06	-0.05	13.00	12.00	12.00	15.00
90%	-2.5	5.8	34	56	10	29	-1.1	106	0.4	0.027	0.02	-0.07	13.00	11.00	12.00	14.00
95%	-3.5	6.5	31	51	7	25	-1.7	112	0.3	0.036	-0.04	-0.10	12.00	10.00	11.00	12.00
100%	-13.2	13.0	-30	-29	-11	-5	-9.1	164	-0.8	0.158	-0.87	-0.46	1.00	0.00	-3.00	-16.00

156,453 calves born in 2010 and 2011.